

COURSE GUIDE – short form

Academic year 2024-2025

Course name	Materials science and engineering (1)					Course code	1IMAT06DD			
Course type	DD	Category	DI	Year of study	1	Semester	1	Number of credit points	4	

Faculty	Materials Science and Engineering				Number of teaching and learning hours					
Field	Materials Engineering				Total	L	T	LB	P	IS
Specialization	Materials Science				100	28		14		58

Pre-requisites from the curriculum	Compulsory	
	Recommended	

General objective	Formation of the ability of applying some principles and basic methods for solving well defined situations in the field under qualified assistance supervision in view of formation of an essential stock of technical knowledge in the field of materials science and engineering.
Specific objectives	Use of knowledge and ability formation in applying basic elements, general and introductory, focussing on structure, properties, methods of analysis and general processing procedures.
Course description	Introduction. Atomic and molecular materials structure. Notions regarding material properties. Methods of structural analysis and nondestructive control of metallic materials. Notions regarding metallic materials processing.

Assessment			Schedule	Percentage in the final grade (minimum grade)
A. Final assessment form: Exam	Class tests along the semester	%		70% (minimum 5)
	Home works	%		
	Other activities	%		
	Examination procedures and conditions: 1. Category: theoretical; subject with open questions; conditions: oral; weight in final grade: 20%; 2. Category: theoretical; subject with open questions; conditions: oral; weight in final grade: 20%; 3. Category: theoretical; solving problem; conditions: oral; weight in final grade: 30%; 4. Category: theoretical; solving problem; conditions: oral; weight in final grade: 30%.		100% (minimum 5)	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			30% (minimum 5)

D. Project	Activity during project	% (minimum 5)
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Course organizer	Lecturer Ph.D. Eng. Elena MATCOVSCHI	
Teaching assistants	Lecturer Ph.D. Eng. Elena MATCOVSCHI	